7+6 Channels PMIC for DSC

Features

- **1.5V ~ 5.5V Input Voltage Operation.**
- **95% Efficient DC/DC Converter**
- **Highly Integrated 7-CH DC/DC with integrated Power MOSFETs**
- **Main Channel Selectable Buck or Boost for 2*AA or Li-Ion Application**
- **Built-in 6 Channel Synchronous Rectified Current-Mode PWM/PSM Converter, 1 Channel Non-Synchronous Rectified Current-Mode PWM Converter.**
- **Boost Type with LED open protection LED Driver**
- **32-steps brightness control by I^2C for LED Driver**
- **Built-in HV LDO and RTC LDO**
- **Built-in 4 LDO regulators**
- **Low Power Consumption (Sleep Mode) < 10μA.**
- **Built-In Selectable Power ON/OFF Sequence for 4 Channel Synchronous Rectified Converter.**
- **Built-In Power ON/OFF Sequence by I2C for CCD+,CCD- power, and HVLDO.**
- **Built-In Short Circuit Protection (SCP) & Under Voltage Protection (UVP)**
- **Cycle-by-Cycle current limit for DC/DC Converter**
- **Built-In Thermal Shutdown Function.**
- **Built-In Battery OVP Function.**
- **Built-In Soft-Start Function.**
- **Built-In True Shutdown in Boost Converter.**
- **Fixed 1.5MHz/750KHz Operating Frequency.**
- **TQFN40 Package (5mmx5mm).**

Applications

DSC and DV Power Supply

General Description

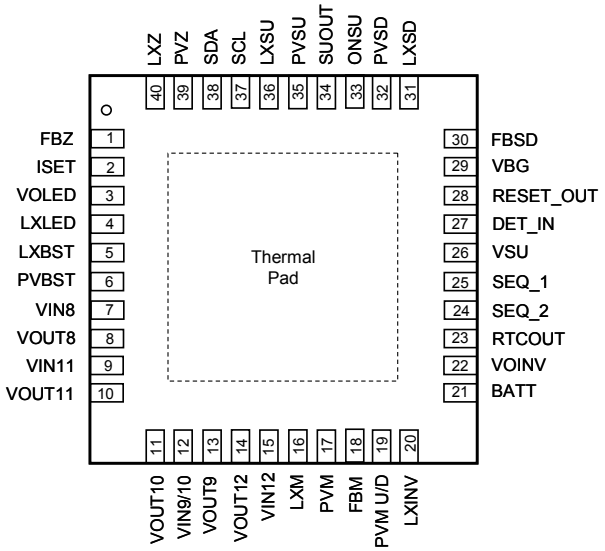
The G2205 provide a complete power supply solution for digital cameras. They improve performance, component count, and size compared to other multi-channel controllers in 2-cell AA, 1-cell Li-Ion, and multi-battery designs. On-chip MOSFETs provide up to 92~95% efficiency for critical power supplies. All channels DC/DC operate at one fixed frequency of 1.5MHz/750KHz to optimize size, cost, and efficiency. All Synchronous converters operate at pulse skipping mode at light load. They also feature True-Shutdown as well as internal compensation to minimize external component count..

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G2205RG1U	2205	-35°C~+85°C	TQFN5X5-40

Note: RG:TQFN5x5-40
1: Bonding code
U: Tape & Reel

Pin Configuration



G2205 TQFN5X5-40

Note: Recommend connecting the Thermal Pad to the Ground for excellent power dissipation.